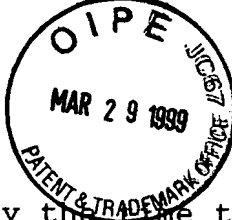Claim 1 (Amended)

1    A liquid crystal color display comprising:

2    a)    a display cell containing a light transmitting medium,

3    b)    driver means connected to said display cell for driving

4    the display cell with sets of grey scale data signals each signal

5    for a different color, and

6    c)    data control means for receiving gray scale data

7    signals related to the setting of a gray scale for the display

8    cell and outputting said gray scale data signals to said driver

9    with a predetermined timing, wherein said data control means

10   includes:

11        i)    computing means for [correcting] changing the

12   level of the gray scale data signals [to] for at least one color

13   relative to the other colors to a different gray scale level to

14   compensate for a variation in intensity between the colors due to

15   wavelength related differences in [transmission] transmissivity

16   between the colors through the light transmitting medium, and

17        ii)   buffer means for delaying [the] any uncorrected

18   gray scale signal[s] related to [unconnected] the other colors

19   for the time [during which] delay caused by said corrected gray

20   scale data signal [is] being corrected.

Claim 5 (Amended)

1    A method of gray scale data control for eliminating the

2    effect wavelength dependency of transmissivity of light in a

3    multicolor display cell comprising:

4    changing the level of gray scale data signals related to at

5    least one of the multicolors supplied to the display cell to

6    create a corrected gray scale data signal with a level different

7    from the inputted gray scale data signal to compensate for

8    differences in transmissivity of the colors that result from

9    wavelength dependence, and synchronizing the output of the gray

10   scale data signals by delaying the output for at least one other

11 of the multicolors by the time taken for correction of <u>said</u> at
12 least one color to simultaneously output the gray scale data of
13 all said multicolors.

Add the following new claims:

### New Claim 7

1 A liquid crystal multicolor display comprising:
2 a) display cells containing a light transmitting medium,
3 b) driver circuits connected to said display cells for
4 driving the display cells with sets of gray scale data signals
5 each driver circuit for a different one of the colors,
6 i) calculation logic in the driver circuit of at
7 least one color for changing the level of the gray scale data
8 signals of said at least one color to a different gray scale
9 level to compensate for color distortion due to wavelength
10 related differences in transmissivity between the colors through
11 the light transmitting medium, and
12 ii) delay logic in the driver circuit for any other of
13 the colors without the calculation logic in its driver circuit
14 for delaying the gray scale signals for the other of the colors
15 to synchronize the provision of the sets of gray scale data
16 signals by compensating for the delay caused by the calculation
17 logic.

### New Claim 8

1 The liquid crystal color display of claim 7 wherein said
2 data calculation logic provides adjustments for varying the
3 amount of correction in accordance with the level of the gray
4 scale data signals provided to said calculation logic.

### New Claim 9

1 The liquid crystal display of claim 8 wherein said at least
2 one color is blue and said any of the other colors are red and
3 green.

New Claim 10

The liquid crystal display of claim 7 wherein said calculation logic includes a tabular lookup table providing different corrective values at different gray scale levels.

New Claim 11

A liquid crystal color display of claim 10 wherein said correction performed by said data control means includes an addition or subtraction of the binary signal representing a change of at least one gray scale level for at least one color.

New Claim 12

A method of gray scale data control for reducing the effect wavelength dependency on transmissivity of light in cells of a multicolor display comprising:

changing the gray scale data signals related to one of the multicolors to correct for the wavelength dependency of transmissivity and thereby create a corrected gray scale data signal different from the inputted gray scale data signal for that color, and synchronizing the timing of the gray scale data signals by delaying the output for any other color of the multicolors with gray scale data signals not subject to a correction by the amount of time taken for correction of the one color to synchronize the timing of the gray scale data signals for all said multicolors.

New Claim 13

The method of claim 12 including varying the magnitude of the corrective change as a function of the gray scale level of said one of the multicolors.

## REMARKS

Ideally, in a TFT liquid crystal display the relationship between gray scale and data transmissivity through the cells of the display is the same for each of the R/G/B colors. However in